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## PATENT ABSTRACTS OF JAPAN

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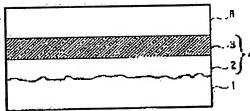
**NAGAHAMA TARO** 

**SUZUKI YOSHISHIGE** 

## (54) FLATTENED TUNNEL MAGNETORESISTANCE ELEMENT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a flattened tunnel magnetoresistance element having high alignment and a flat interface without being influenced by the structure and irregularities of a ground such as an amorphous substance and a polycrystalline substance. SOLUTION: The flattened tunnel magnetoresistance element has a ground layer consisting of double layers of a MgO amorphous layer 2 and a MgO (001) high alignment layer 3.



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